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Authors: [Dudley, C. C.](#); [Fischer, J.](#)
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Abstract

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SUPERNOVA 1999el IN NGC 6951

C. C. Dudley and J. Fischer, Naval Research Laboratory, Washington, report near-infrared observations of SN 1999el obtained with the U.S. Naval Observatory 1.55-m telescope (+ ASTROCAM 1024x1024 ALADDIN InSb imager) at Flagstaff on Oct. 26.15 UT: "A K' position, calibrated from the positions of more than 20 USNO-A2.0 stars within the 6' field-of-view of the imager, is R.A. = 20h37m17s.72, Decl. = +66o06'11".5 (equinox 2000.0). The K' and J magnitudes are estimated to be 12.7 and 13.6, respectively (each with an uncertainty of 0.2 mag). Flux calibration is based on the stars in field AS40 reported by Hunt et al. (1998, A.J. 115, 2594), observed within 0.1 airmass of the supernova. The present estimates include contributions from two nearby foreground stars (see [IAUC 7288](#)), contributing at the 5-15-percent level. Contributions from NGC 6951 appear to be well subtracted by making use of the symmetry of the galaxy in these passbands with respect to rotation by 180 deg about the nucleus.

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Daniel W. E. Green